







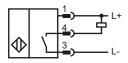
Model Number

NBN4-12GM50-E0-V1

Features

· 4 mm not embeddable

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

BN	(brown
WH	(white)
BU	(blue)
BK	(black)
	WH BU

Accessories

BF 12

Mounting flange, 12 mm

V1-G 4-pin, M12 female field-attachable connector

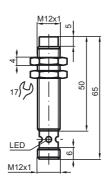
V1-W 4-pin, M12 female field-attachable connector

V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

Dimensions



	Technical Data		
	General specifications		
	Switching element function		NPN NO
	Rated operating distance	s _n	4 mm
	Installation		not embeddable
	Output polarity		DC
	Assured operating distance	sa	0 3.24 mm
	Reduction factor r _{Al}		0.5
	Reduction factor r _{Cu}		0.4
	Reduction factor r ₃₀₃		0.8
	Nominal ratings		
	Operating voltage	U_B	10 30 V
	Switching frequency	f	0 1200 Hz
	Reverse polarity protected		reverse polarity protected
	Short-circuit protection		pulsing
	Voltage drop	U_d	≤ 3 V
	Operating current	ΙL	0 200 mA
	Off-state current	l _r	0 0.5 mA typ. 0.1 μA at 25 °C
	No-load supply current	I ₀	≤ 17 mA
	Indication of the switching state		Multihole-LED, yellow
	Functional safety related parameter	ers	
	MTTF _d		1600 a
	Mission Time (T _M)		20 a
	Diagnostic Coverage (DC)		0 %
	Ambient conditions		
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Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

Connection type Device connector M12 x 1, 4-pin Housing material brass, nickel-plated

Sensing face Protection degree PRT IP67 General information

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.